

1 2. (Once Amended) A host cell transformed with a heterologous
2 nucleic acid having a sequence identical to the nucleic acid of Claim 1 or a nucleic acid
3 complementary to said heterologous nucleic acid.

1 4. (Once Amended) A host cell transformed with a heterologous
2 polypeptide having the amino acid sequence of SEQ. I.D. No. 2 or a heterologous
3 polypeptide having at least 80% sequence identity to said heterologous polypeptide.

1 5. (Once Amended) A transgenic plant overexpressing the
2 nucleic acid of SEQ. I.D. No. 1 or a nucleic acid complementary to SEQ. I.D. No. 1.

1 6. (Once Amended) A transgenic plant overexpressing a
2 polypeptide selected from the group consisting of the amino acid sequence shown in
3 SEQ. I.D. No. 2 and an amino acid sequence having at least 80% identity to the amino
4 acid sequence shown in SEQ. I.D. No. 2.

1 7. (Once Amended) A method of altering circadian rhythms and
2 flowering in a plant comprising transforming the plant with the nucleic acid sequence of
3 SEQ. I.D. No. 1.

1 8. (Once Amended) A method of altering circadian rhythms and
2 flowering in a plant comprising transforming the plant to alter expression of a
3 polypeptide having either the amino acid sequence of SEQ. I.D. No. 2.

- 1 9. (Once Amended) A method of altering circadian rhythms and
- 2 flowering in a plant comprising changing activity of protein kinase CK2 within the plant.